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Docket No. B-ND-4201
 Date Authorized for Exam Recd. July 14, 1942
 Date of Examination, inclusive Aug 14, 1942
 Date of Report

1. Name and Address of Applicant

Name P. H. McCullough and J. J. Fagan
 Address 849 E. Palm Lane
 City & State Phoenix, Arizona

Correspondent J. J. Fagan
 849 E Palm Lane
 Phoenix, Arizona

2. Character of Project

Development of Copper-gold Property

3. Location of Mine

in the Owens Mining District, the mine is located in Township 11 N., Range 14 W. in Mohave County, Arizona. The nearest rail points are Aquila 52 miles southeast and Yucca 58 miles northwest from the mine. The mine is reached from these points over good dirt roads. The road from the southwest is sometimes impassable for long periods when there is a heavy flow of water in the Bill Williams river.

4.

Applicant. One of the partners is a clerk in the office of a construction firm in Phoenix and has had experience in mining.

The other partner is an old prospector who has lived in the region many years. He is seriously crippled thru the loss of one arm and an eye.

5. Loan Requested
\$5000

6. Description of project

A. General Features

1. There are no mine workings etc. which are not confined within the applicants' ownership.
2. Project would comply with State compensation and safety-first regulations.
3. There are no apparent legal discrepancies in the project.
4. There are no impeded right-of-way facilities.
5. There is no likelihood of surface or subsurface trespass.

B. Mine is developed by shafts, tunnels, and cuts.

- a. Accompanying map and sections are compass and tape surveys.
- b. Samples were picked and mailed and gathered on camera. Location of sampling is indicated on accompanying maps and assay certificate is attached to this report.
- c. Some of the workings were filled with muck but all places where ore was claimed to exist were in good condition and readily accessible.
- d.

d The property, comprising 4 claims is owned by the applicant and is held by annual assessment work. 3

11. The mine is located in a range of low rolling hills. The country rock is a liney schist which is traversed by a series of N-S trending quartz veins which dip steeply east. The veins in places are mineralized with gold and oxidized copper minerals. The district has made a sizable gold production and the Rawhide mine, approximately one mile east of the applicant's property, a notable producer of high grade silver ore many years ago. No important ^{copper} production has been made in the immediate vicinity. The Cleopatra mine some ten miles north of the mine is at present a substantial shipper of low grade copper ore.

There are many scattered surface cuts and shallow pits on the property but the more important development consists of a tunnel and several shafts located at about the center of the group of claims. ^{Following is} a description of these workings and the sampling (see accompanying map):

A tunnel and shaft explore a vein which strikes ~~south~~ approximately $S 25^{\circ} E$ and dips $50^{\circ} NE$. The shaft which is said to be 100 feet deep is completely filled with muck. The tunnel which starts at the top of the shaft is 100 feet long and is open to the face. The vein material is hard quartz and crushed well rock with occasional stringers and patches of copper carbonate. ~~carbonate~~. The tunnel passes out of the vein on its hanging wall side at 35 feet in from the portal and beyond this point shows nothing of ~~the~~

interest. ~~See page 113 & 114 & 115 in a ~~form~~~~
~~The vein at that point is a small ~~one~~~~
~~which was ~~not~~ in the vein about 100 ft~~
~~west of that. The samples from this vein~~
 place averaged:

Samples No. Width O₂ Cu Cr₂O₃ % Cu

Mr 1	54"	.01	Tn.	.92
Mr 2	50"	.02	Tn.	.76
Mr 3	42"	.01	Tn.	1.22
Mr 4	20"	Tn.	Tn.	Nil
Mr 5	54"	.02	Tn.	1.53
Mr 6	24"	.15	.20	.92

About 7 tons of sorted material on the dump
 averaged:

Sample No. O₂ Cu Cr₂O₃ % Cu

15	.08	Tn.	2.48
----	-----	-----	------

^{12'}
 A shaft some 100 feet north of the tunnel
~~and~~ and a cut several feet from the shaft
 showed several feet of quartz with a small amount
 of copper stain. A short distance further north
 - ~~two~~ cuts 20 feet apart ~~has~~ been
 made along a quartz vein similar to those
 described above. A small amount of copper
 carbonate is visible in the cuts and samples
 cover the veins averaged:

Samples No. Width O₂ Cu Cr₂O₃ % Cu

7	12"	.08	.20	1.45
8	45"	.04	.10	1.26

All of the above described ~~minerals~~
~~parallel veins being parallel strike and dip.~~
 are separate

Placed 100 ft. north of the cut where
 sample No. 8 was cut two shafts ^{15 feet apart} have been sunk

upon a vein which in common with the other dip strikes about $N 25^{\circ} W$ and dips approximately $55^{\circ} NE$. The shafts are connected 10 feet below the surface and some ground has been stoped and a small amount of ore shipped. The vein appears to have a definite hanging wall but ^{the} foot wall ~~is~~ is irregular. In general the values follow a thin ^{irregular} seam of copper carbonate which occurs in a vein of crushed ~~bedded~~ brownish quartz.

Production from this mining place, which is the only known production from the property, was made by three different parties with the following results:

Date	Tons	oz Au	oz Ag	% Cu
July 7, 1939	.47	1.36	.20	8.20
May 29, 1941	9.14	.97	.17	3.11
Sept. 22, 1941	<u>3.12</u>	2.40	.40	4.40
	12.73			
Weighted				
Ave.		1.34		3.61

The ^{above} shipments were the result of ~~the material~~ ~~made by~~ close sorting, ~~the~~ ~~material~~ and the size of the opening and the dump ~~it~~ indicates that 70 to 80 ^{tons} of material was hauled in order to make 13 tons of shipping ore. Sampling ^{of the vein} indicates an erratic distribution of gold and a low copper content. There are no extensions of this ore exposed on the surface. The showing obviously is a small pocket of gold ore ~~most~~ part of which has been removed.

A number of shallow cuts scattered over the property nearly all show copper staining and ~~a~~ occasional pieces of carbonate ore on the dump but none of the exposures were worth sampling.

Proposed Development

The applicant proposes to drive a crosscut tunnel beneath the shaft workings described above, ^{and to explore} and this vein or any other ~~part~~ of interest which the tunnel might ~~cut~~. ~~A rough~~ These ~~surveys~~ of the ground ~~indicated that a~~ ^{rough survey indicated} vein pitch dip into the hill and ~~the~~ proposed tunnel would cut the shaft vein at approximately 275' with 75 feet of rock on the vein.

Comments of Supervising Engineer

While the property might

then an no copper showing of importance on the property nor does it seem likely that further development will

Development on the property has not disclosed ~~the~~ any ~~appreciable~~ ^{trace} ~~copper~~ body of copper ore ~~and it does not seem likely that further development would do so.~~ nor does it seem likely that further development would do so.

Copper showing of importance

A development loan does not appear to be justified.

...: Comment of Guy Eng. _____

A Development Lease is not justified.

The work which has been done to date on ~~the property~~ has not disclosed any important showing of Copper ore, and there is no indication that further development would result favorably.

Comments of Supervising Engineer

Development of the property to date has not disclosed any important showing of copper ore and there are no indications on the property which would justify further development.

A Development loan is not justified. Development of the property to date has not disclosed any important showing of copper ore, and there are no indications that would ~~justify~~ further development would be justified.

47' at 41°

50' at 23°

50' at + 6°

95 at + 11

18 ~~at~~ 0°

No 9 8" high
In Colored Reddish
at mFW

No 10 5' up
38" 7'

No 11 10 up
36" N wall

No 12 20' up
~~in full~~
~~of~~

Mr. Moore
Akron Court
Kingman

72° slope
depth 23' deep
cut on top
Musk.

1' more N and

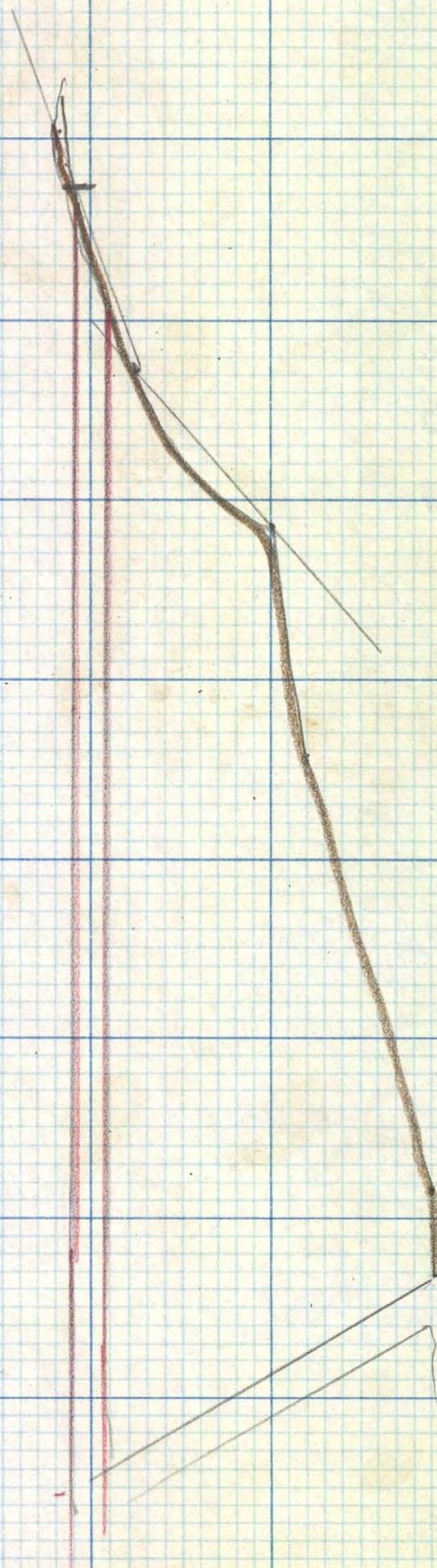
12' up

13' on side

cut 12" stained
No 7 1 98' from ^{old} shaft N 10 E

No 8 45' N of No 7 pit on vein 7' deep
Strike N-S dip 38° E 42" both ends

Several other shallow superficial cuts S
main shaft on or strays 11 and E of this



N 30W 22'
 N 10W 22'
 S 38W

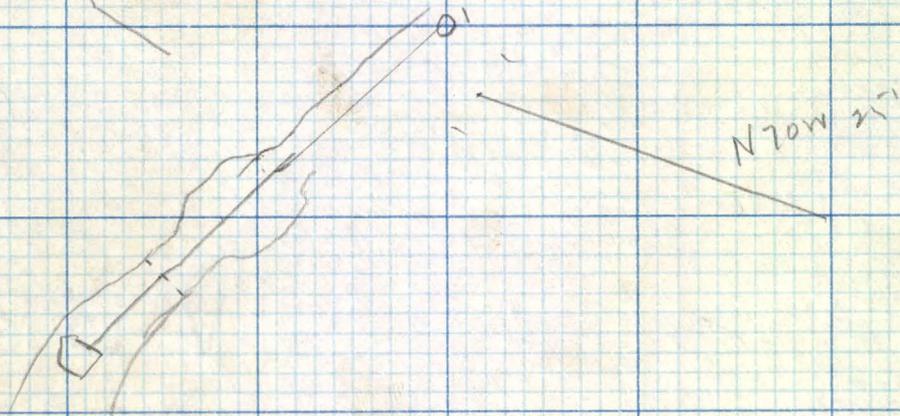
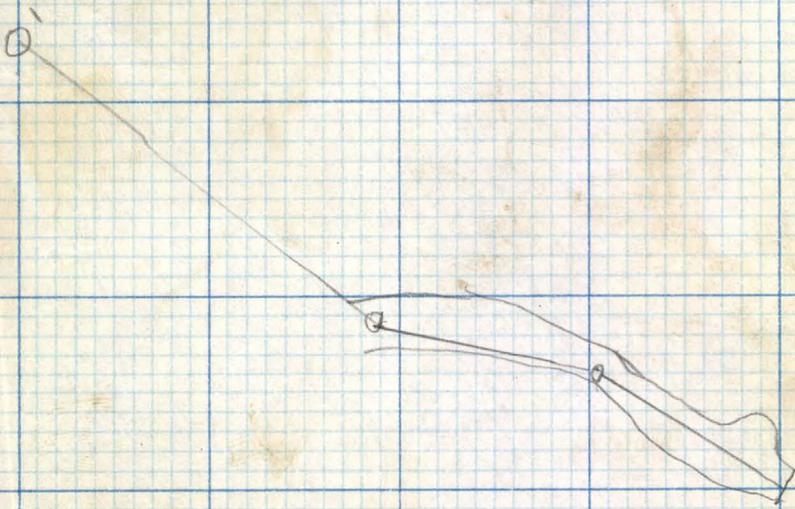
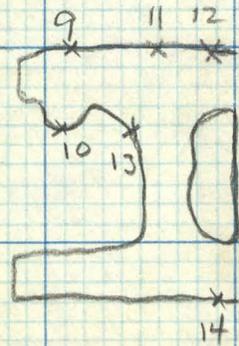
24-30 38.5 48.5 Pt on top filled 100' wide

100 ft on strike NW is about 12' deep no ore some stain
 reddish crushed rock

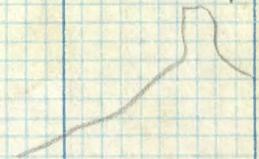
20' further on same apparent strike is shallow cut
 w/ 34" ^{reddish} streak in ^{SW wall in} intensely fractured siliceous "quartzite"

Quartzite is ancient Precambrian

N wall 6-8" w/ little copper stain



20° slope for
 200' then
 40 and steep



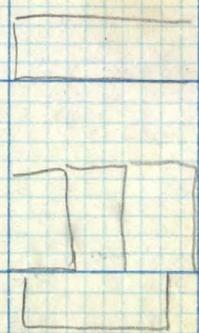
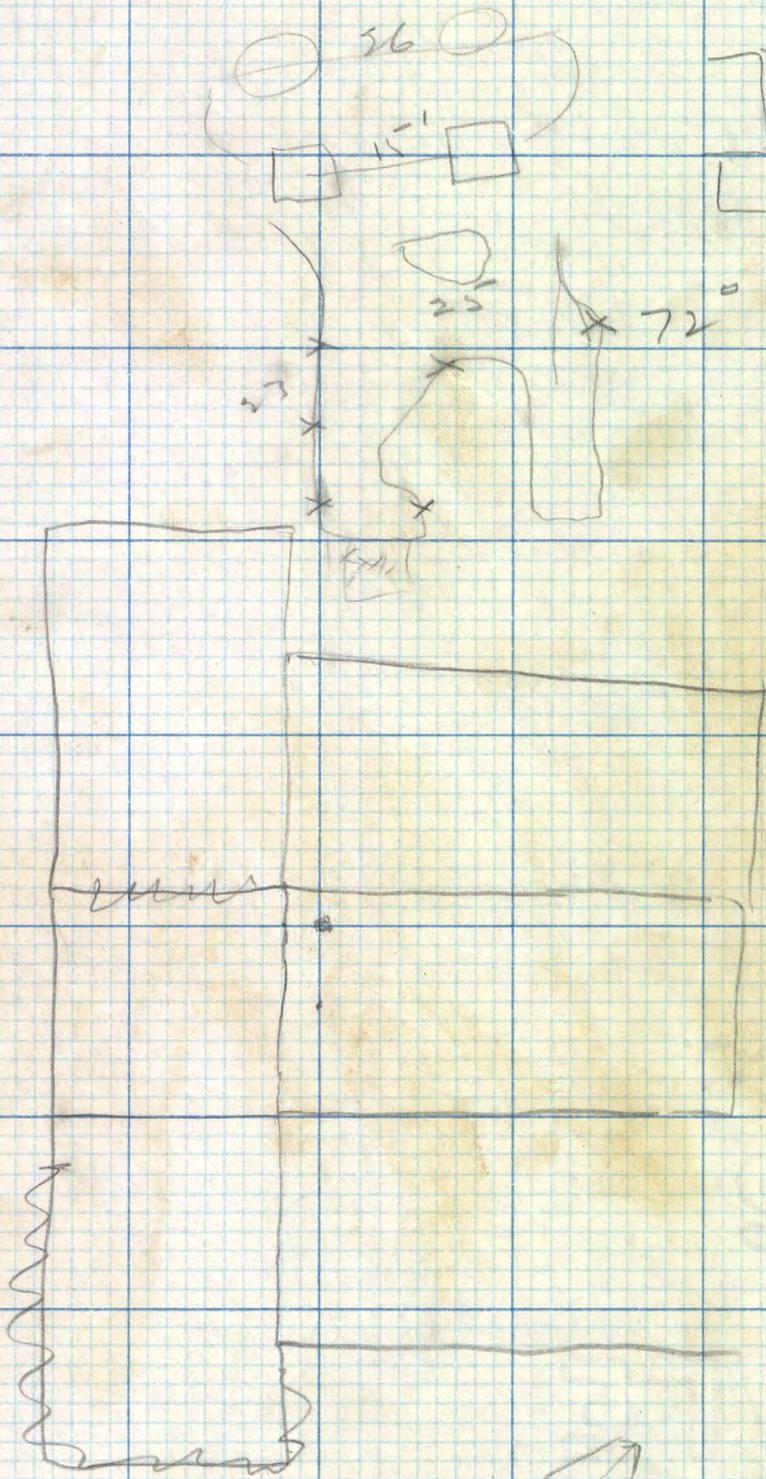
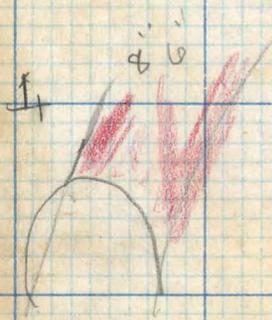
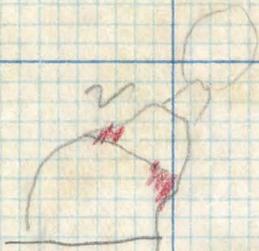
90
 30W
 2

Rawhide Og.

A Tronrad adjoin on E

Bonanza
Tunnel on

N 30 W



No 1 Portal of tunnel

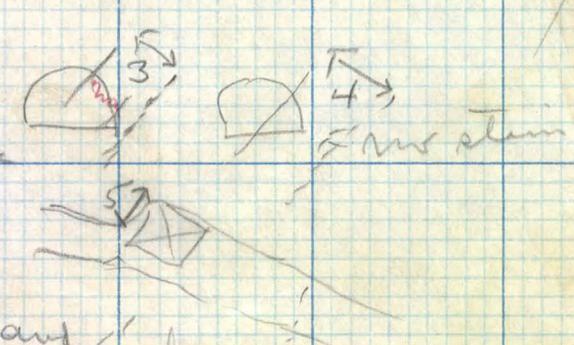
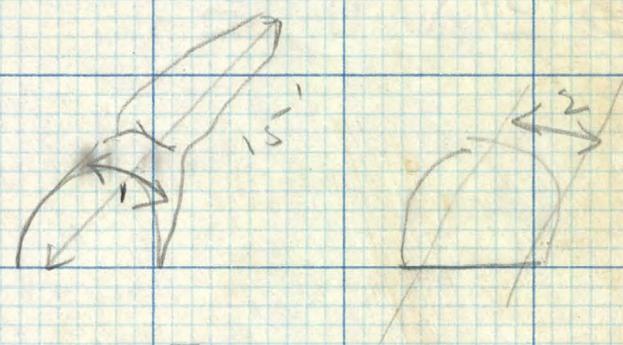
No 2 10' in

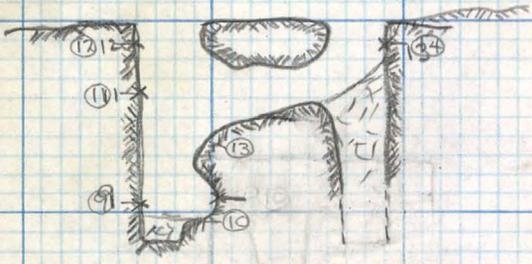
No 3 20

No 4 30

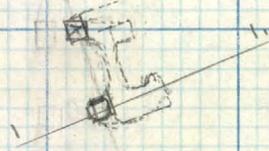
No 5 22' out from Portal

No 6 10 ahead of No 1 and 6' above (on slope)

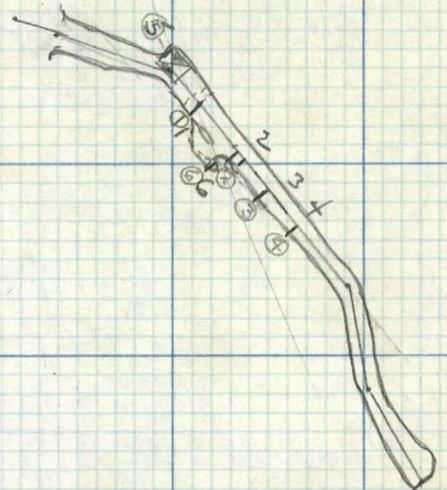
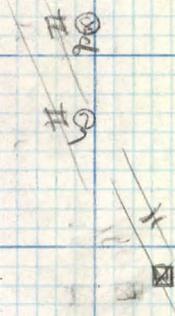




Plane of Vein
1" = 20'



Sec. 1-1,
1" = 20'

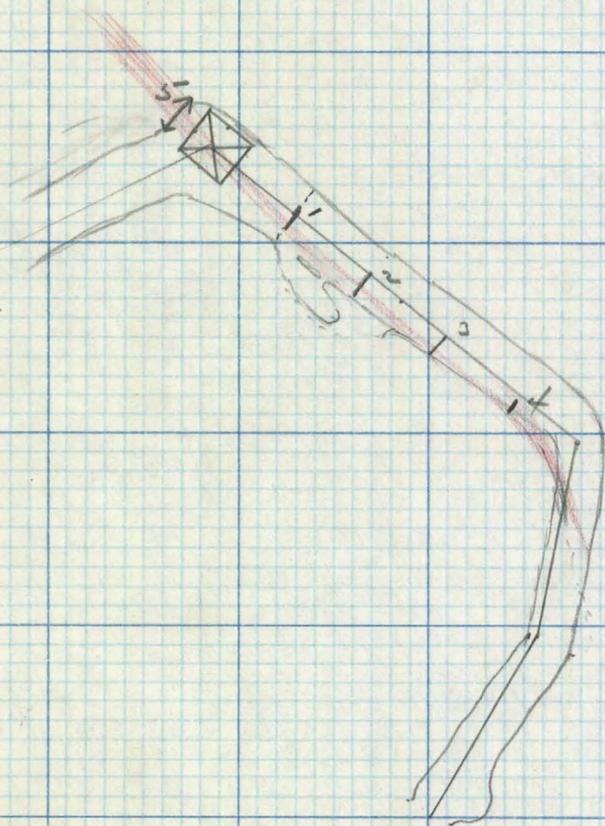


DOCKET NO. B-ND-4201

GEORGE GROUP
Owens Mining District
Mohave Co., ARIZ.
Scale: 1" = 40'

1" = 40'

T.P.L.
8/27/42



→
Z

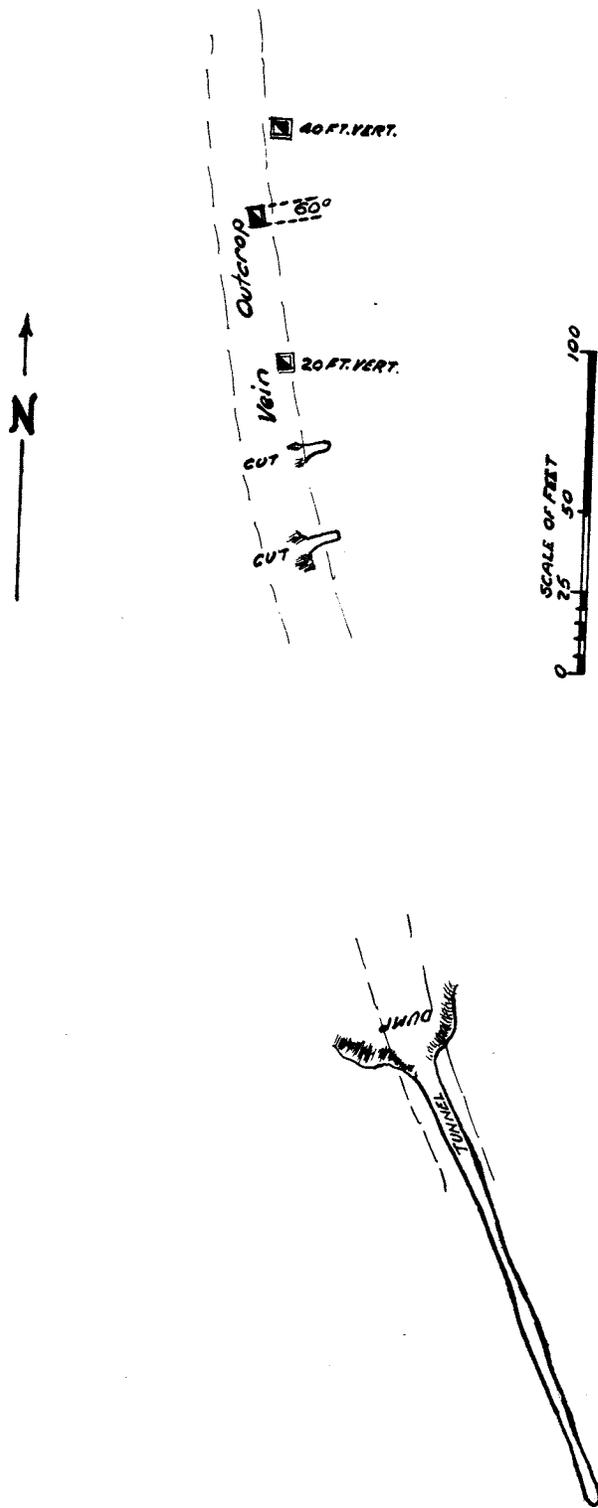
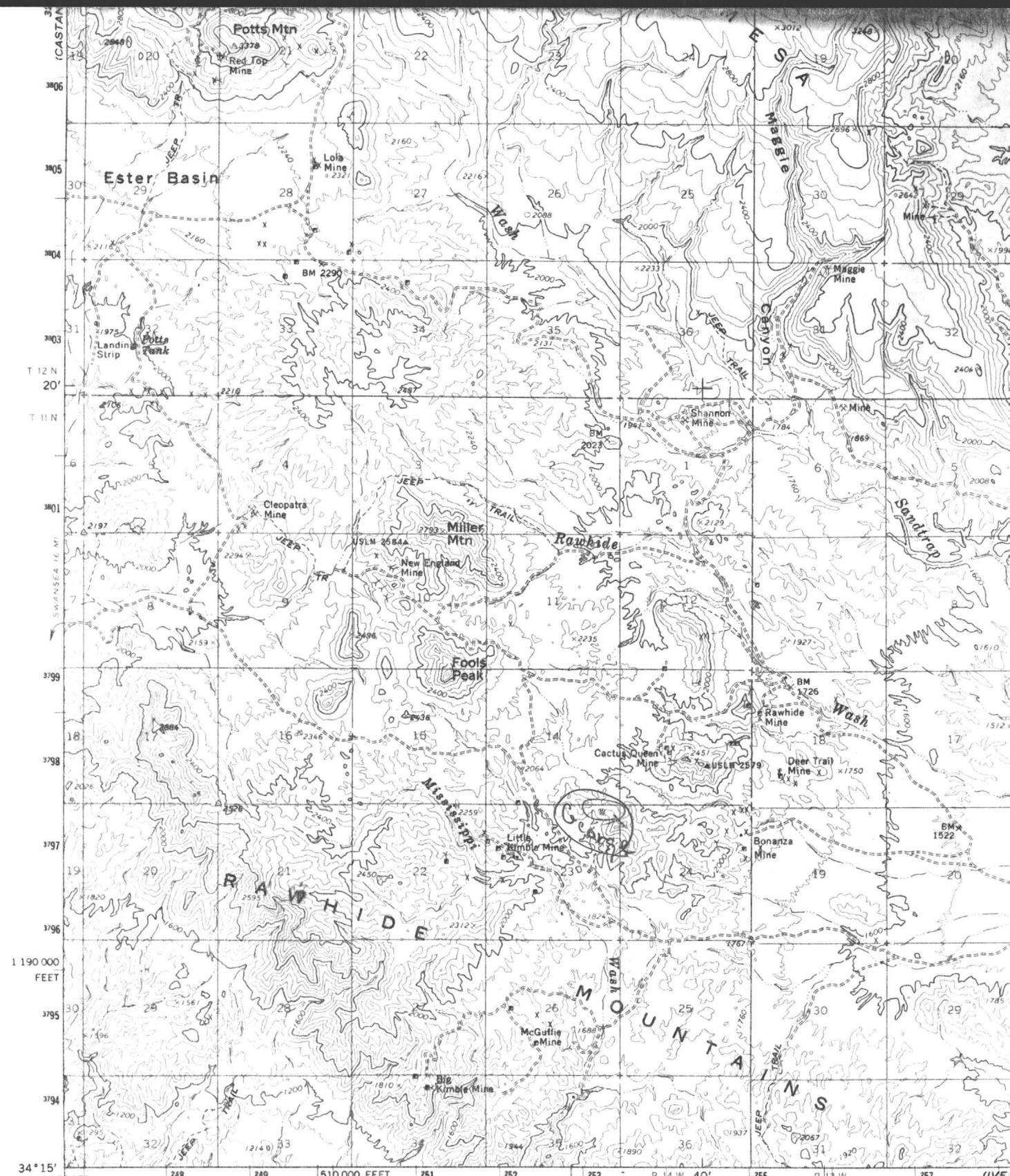


Fig 10. SKETCH OF OUTCROP & WORKINGS, GEORGE GROUP OWENS DIST. ARIZONA.



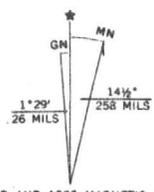
(SWANSEA)
3232/II

Mapped, edited, and published by the Geological Survey
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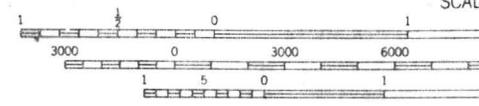
Topography by photogrammetric methods from aerial
photographs taken 1964. Field checked 1966

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

Blue hatching indicates areas to be submerged by Alamo Reservoir
at elevation 1070. Areas covered by dashed light-blue pattern
are subject to controlled inundation

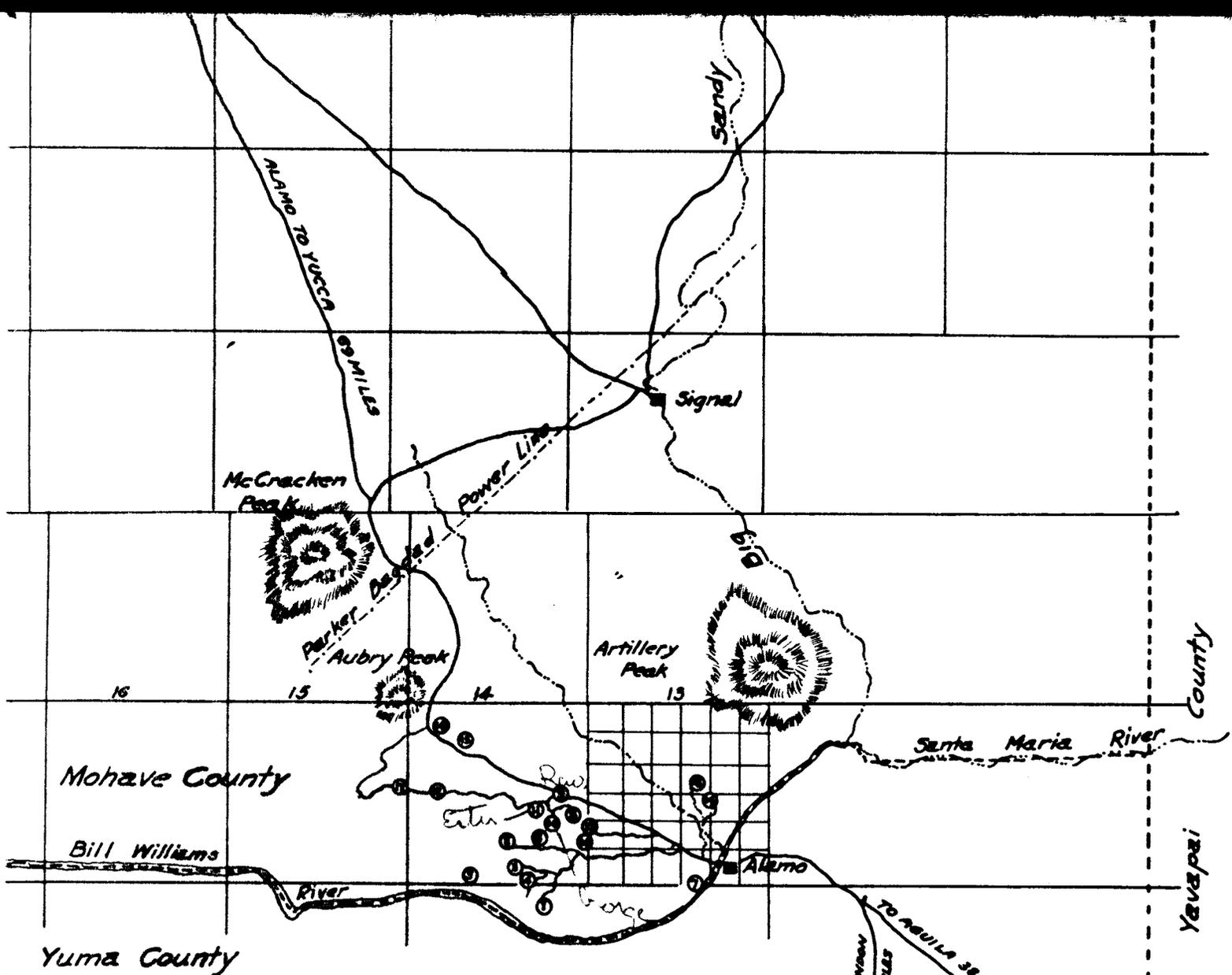


UTM GRID AND 1966 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET.



CONTOUR IN
DOTTED LINES REPRESENT
DATUM IS M

THIS MAP COMPLIES WITH NAT
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENV
A FOLDER DESCRIBING TOPOGRAPHIC MA



KEY TO MINES SERVED

- | | |
|--------------------------|-----------------------|
| 1. Sally Ann Millaite | 14. Bonanza |
| 2. Little Kimball | 15. Wilcox |
| 3. Phipps | 16. Mahogany |
| 4. Sally Ann | 17. Cleopatra |
| 5. Esperanza | 18. Warrior Manganese |
| 6. Anderson | 19. Black Warrior |
| 7. Oregon | 20. Coppervill |
| 8. Iron Clad - cactus Q. | 21. Leviathan |
| 9. Rawhide | 22. Wayne Mica |
| 10. George | 23. Giant Mica |
| 11. Esther | 24. Gold King |
| 12. New England | 25. Boriana |
| 13. Deer Trail | |

— Access Roads approved,
- - - or under construction

AIR 48 & 148

Owens, Maynard, & Cedar Valley Districts. ARIZONA